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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/960,351	09/24/2001	Anders Lindberg	3372-0108P	6239
2292 7590 03/23/2007 BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747			EXAMINER	
			SHANG, ANNAN Q	
			ART UNIT	PAPER NUMBER
			2623	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE	
3 MONTHS		03/23/2007	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
		Applicant(s)	
	09/960,351	LINDBERG, ANDERS	
Office Action Summary	Examiner	Art Unit	
	Annan Q. Shang	2623	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perions a Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICA 1.136(a). In no event, however, may a rep of will apply and will expire SIX (6) MONTH ute, cause the application to become ABAI	ATION. lly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>08</u> This action is FINAL . 2b) ☐ The since this application is in condition for allow closed in accordance with the practice under	nis action is non-final. vance except for formal matter	•	
Disposition of Claims			
4)	rawn from consideration.		
Application Papers		•	
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) and a specificant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the specificant formula.	ccepted or b) objected to by ne drawing(s) be held in abeyance ection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a lie	nts have been received. nts have been received in Application of the property	plication No eceived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/	mmary (PTO-413) Mail Date ormal Patent Application	

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United. States.
- 2. Claims 1-37 are rejected under 35 U.S.C. 102(b) as being anticipated by Jensen et al (5,671,219).

As to claim 1, **Jensen** a method in which user stations (102) communicate with one or more base stations (104) to place and receive calls and data, in a secure voice or data link and ability to handoff calls between stations while such calls are in progress and further discloses a method of test receiving alternative reception frequencies in a receiver receiving a continuous flow of information at a first reception frequency, the continuous flow of information including a user terminating information, the receiver including an information transfer routine that extracts a flow of specific user terminating information from the received continuous flow of information, the method comprising:

The claimed "an antenna and a demodulator..." are inherent to Receiver of Mobile Station 'MS'102 (figs.1-4 and col.3, lines 31-42, col.6, lines 11-55);

Predicting (MS-102) an interruption in the form of natural break in the flow of specific user terminating information (col.12, line 39-col.13, line 22, line 67-col.14, line 6); base on the behavior of the specific user terminating information, evaluating the

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interruption to determines a probability whether it will be of an adequate length of time, and generating a positive response if it is evaluated that the interruption will be of an adequate length of time (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43);

Changing reception frequency of the receiver from the first reception frequency to an alternative reception frequency if the evaluation has generate a positive response; Test receiving the alternative reception frequency; enabling reception and extraction of the flow of specific user terminating information (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43), note that due to expected interruption of the flow of information to MS-102 during communication with a base station, MS-102 stores in advance available frequencies of all base stations within the vicinity, and when such interruption occurs during communication, such as, faulty communication, in situation where sudden shadowing occurs, such as when connection with current base station is lost due to severe signal blockage near the limit of cell range such as can occur when turning corner quickly in a dense urban high rise area, low signal strength, etc., MS-102 checks its previously created 'priority list' of available base stations in the vicinity and attempts to establish contact with new base station (handoff or handover) or previous base station during this period.

As to claims 2-3, Jensen further discloses where the receiver is receiving the continuous flow of terrestrial digital video/audio broadcasting (DVB-T/DAB) transmission (col.4, line 39-col.5, line 27, line 59-col.6, line 10 and col.14, line 30-52).

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As to claims 4-5, Jensen further discloses where the interruption comprises the steps of: determining a probability that the interruption will be of an adequate length of time, determining if the probability is larger than a predetermined threshold value and if is determined that the probability is larger than the predetermined threshold value then it is evaluated that the interruption will be of an adequate length of time, where an adequate length of time of an interruption is at least equal to a total time of one test reception and one frequency (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43).

Claims 6-9 are met as previously discussed with respect to claim 1.

Claim 10 is met as previously discussed with respect to claim 1.

Claim 11 is met as previously discussed with respect to claim 1.

Claim 12 is met as previously discussed with respect to claim 1.

As to claims 13-14, Jensen further discloses where enabling reception and extraction of the flow of specific user terminating information (SUTI) is performed after a predetermined time after the information transfer routine has requested more information (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43).

As to claims 15-16, Jensen further discloses where enabling reception and extraction of the flow of SUTI is performed after the information transfer routine is activated and after a predetermined period of time (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43).

As to claims 17-23, Jensen further discloses determining a list of alternative frequencies, the claimed "changing reception frequency...." "test receiving the further

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alternative frequency (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43), evaluating the test reception or test receptions based on one or more parameters of the test received alternative frequency or frequencies, where enabling reception and extraction of the flow of USTI comprises changing the reception frequency to the first reception frequency and initiating a handover to an alternative frequency (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43).

As to claims 24-29, the claimed limitations are met as previously discussed with respect to claim 1.

As to claim 30, the claimed "a receiver being arranged to receiving a continuous flow of information…" is composed of the same structural elements that were discussed in the rejection of claim 1.

Claims 31-32 are met as previously discussed with respect to claims 2-3.

As to claims 33, Jensen further discloses continuously evaluating and determining the best frequency within a predetermined time during the handoff (col.14, line 54-col.15, line 38, line 47-col.16, line 18 and col.18, line 1-43).

Claims 34-37 are met as previously discussed with respect to claims 17-23.

Response to Arguments

3. Applicant's arguments with respect to claims 1-37 have been considered but are most in view of the new ground(s) of rejection discussed above. The amendment to all the independent claims necessitated the new ground(s) of rejection discussed above. This Office Action is made Final.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Astrom et al (6,169,881) disclose method and apparatus for predicting impending service outages for ground-to-satellite terminal in a satellite communication system.

Anderson et al (6,161,013) disclose wireless communication system and method.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Annan Q. Shang** whose telephone number is **571-272-7355**. The examiner can normally be reached on **700am-400pm**.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Christopher S. Kelley** can be reached on **571-272-7331**. The fax phone number for the organization where this application or proceeding is assigned is **571-273-8300**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the **Electronic Business Center (EBC) at 866-217-9197 (toll-free)**. If you would like assistance from a **USPTO Customer Service Representative** or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Annan Q. Shang